

PRO 8100 Gauss meter



1. Product Introduction

PRO 8100 is a portable AC and DC gaussmeter. It is used for measuring the surface magnetic field of permanent magnets and the working magnetic field of DC motor and magnetic separators.

PRO 8100 can display N/S, with the high resolution of 0.1G, it can be used for detecting the residual magnetic of machining, the remanence of work-piece and controlling the magnetic situation of plating materials, also detecting the magnetism of motors. With AC measurement function, it can be applied for detecting AC space magnetic field distribution.

2. Main Features

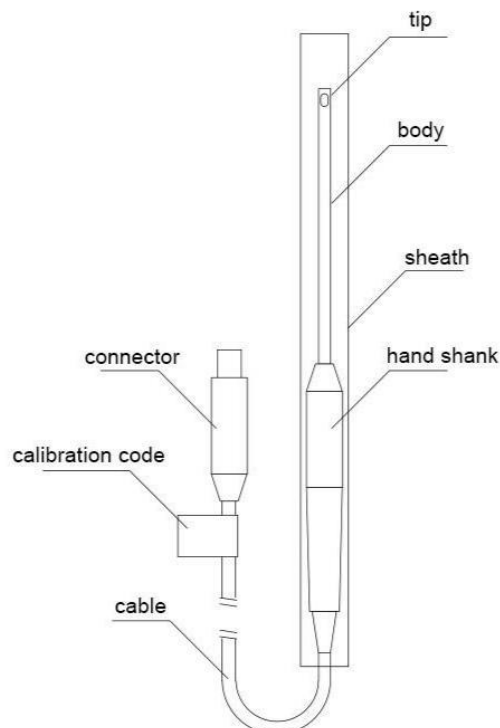
- ✧ Portable, convenient to handle and store, for on site measurement
- ✧ Automatically shut down time can be set, continuously use for more than 30 hours (turn off back-light)
- ✧ DC/AC magnetic field
- ✧ DC/AC maximum value hold
- ✧ DC field polarity judge function
- ✧ Probe automatic zero
- ✧ Units: G, T, Oe, A/m
- ✧ Transverse probe/ axial probe with independent calibration value

3. Technical Data

1. Power	four AA batteries (alkaline battery is recommended)	
2. Display	3 3/4digital LCD display	
3. DC Measurement	Range:	30kG, 3kG, 300G
	Resolution:	10G, 1G, 0.1G
	Accuracy:	(2%of reading +0.1%of range)
		(B<20kG, probe temperature15-35°C)
	Temperature coefficient:	Maximum $\pm(0.06\%$ of reading+0.01G)/°C
		probe temperature 15-35°C
4.AC Measurement	Display update rate:	2.5 rgd/s
	Range:	3Kg, 300G
	Resolution:	1G, 0.1G
	Bandwidth:	10Hz-10kHz (sine magnetic field)
	Accuracy:	$\pm(5\%$ of reading +0.2%of range)
		(effective range, 1kHz sine magnetic field)
		Effective measurement range >0.33%range
		Rated measurement range >1%range
	Zero deviation :	<0.2%range
	Temperature coefficient:	Maximum $\pm(0.06\%$ of reading)/°C
	probe temperature 15-35°C	
5.Application Environment	Display update rate:	2.5 rgd/s
	Instrument:	15-35°C (rated accuracy)
		35-45°C (accuracy reduced by 0.2%)
	Probe:	15-35°C (rated accuracy)
		35-45°C (accuracy reduced by 1%)
	Humidity:	35~75%
6. Interface:	5-core probe socket	
7. Dimension:	L173*W91*T42mm	

4. Probe Features

1. The standard configuration of PRO 8100 is transverse probe. There are also axial probe for customer selection.
2. The probe is composed of tip, body, hand shank, cable, connector, sheath and calibration code.
3. In the tip of probe, there is a hall sensor, which is very fragile. The thickness of tip is 1.2mm and the width is 3.5 mm.
4. The body of probe connect with tip and hand shank and extend tip to the suitable operation position.
5. Hand shank is the only part which operator can hold during the measurement. In some special application, operator can use some fixed device to hold the hand shank, so that the tip of probe keep stable during the measurement.
6. The cable connects the electric from tip to connector. The length of it is 1.5 m. The connector is 5 core plug, and connect with the socket at the tip of PRO 8100.
7. Sheath is used to protect the tip and body shank of probe.
8. All the probes have a separate calibration code. The calibration code nears in the probe connector. The calibration code can be input to PRO 8100 by keyboard.



5. Packing



6. Configuration

Item	Title	Quantity	Unit
1	PRO 8100 Gauss Meter	1	set
2	Hall Probe	1	piece
3	Battery (not included)	4	pcs